

SEVIER LAKE BASIN

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10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat $38^{\circ}11'47''$, long $112^{\circ}08'49''$, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 30 S., R. 3 W., Piute County, Hydrologic Unit 16030002, on right bank about 2,200 ft upstream from bridge on State Highway 22, 2.3 mi east of Kingston, 4.7 mi upstream from mouth, and 10 mi downstream from Otter Creek Reservoir.

DRAINAGE AREA.--1,207 mi².

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since August 1, 2001. Elevation of gage is 6,160 ft above NGVD of 1929, from river-profile map. Prior to April 29, 1914, staff gage at site 0.8 mi upstream. April 29, 1914 to June 2, 1939, water-stage recorder 4,700 ft downstream. June 3, 1939 to July 29, 1970, water-stage recorder 3,200 ft downstream. Prior to July 29, 1970 at different datums. July 30, 1970 to July 12, 1983, water-stage recorder 760 ft downstream and July 12, 1983 to April 6, 1999, about 700 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions upstream for irrigation and storage in Otter Creek Reservoir (capacity 52,700 acre-feet) 10 mi upstream; some flow regulated by reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s, May 12, 1941, gage height, 5.05 ft, datum then in use, from rating curve extended above 1,500 ft³/s, site and ; minimum, 1.0 ft³/s, Jan 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 284 ft³/s, Jul 23, gage height, 5.37 ft; minimum daily discharge, 10 ft³/s, Oct 18, 19, 20, 21.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	11	12	e12	13	15	15	38	209	193	153	80
2	17	11	12	e12	13	14	16	87	209	193	185	45
3	20	11	12	e13	e12	16	15	158	215	192	185	44
4	17	11	12	e14	e12	15	15	160	214	184	163	45
5	15	11	e12	e13	e11	14	15	162	214	178	157	43
6	14	11	e11	e13	e11	15	16	163	210	185	153	42
7	13	11	e12	e12	e11	15	15	167	201	186	153	42
8	12	11	e11	e12	e11	14	21	166	199	186	152	41
9	12	13	e11	e12	e12	14	17	161	206	184	152	41
10	12	14	e11	e12	e12	13	19	159	205	181	151	41
11	11	13	e11	e12	e13	13	24	161	204	177	145	41
12	11	13	e11	e12	e13	13	43	165	203	172	143	41
13	11	12	e11	12	13	14	41	164	201	205	142	34
14	11	12	e11	12	14	79	30	166	199	204	141	29
15	11	12	11	12	13	26	16	166	198	201	141	27
16	11	11	11	e12	13	21	16	163	191	200	139	26
17	11	11	11	e12	13	22	17	167	193	200	139	24
18	10	11	e11	e12	14	19	18	209	194	193	130	25
19	10	11	e11	e12	14	17	20	210	192	188	126	25
20	10	11	e12	e12	14	17	21	209	192	189	124	26
21	10	11	e12	12	14	16	38	211	190	195	123	25
22	11	11	e12	12	13	16	38	211	190	197	128	26
23	11	11	e12	12	e11	15	41	205	191	222	170	25
24	11	11	e13	12	13	18	41	207	191	196	166	25
25	11	11	e12	12	13	16	40	216	197	194	160	25
26	11	e12	e12	12	14	15	40	214	196	191	139	25
27	13	e11	e13	12	15	16	40	211	194	192	68	21
28	13	e13	e14	12	14	16	38	208	193	190	54	21
29	12	e14	e13	12	---	15	37	207	193	189	61	23
30	11	e11	e12	12	---	15	37	210	195	188	122	23
31	11	---	e13	12	---	15	---	211	---	187	107	---
TOTAL	384	348	365	377	359	559	800	5,512	5,979	5,932	4,272	1,001
MEAN	12.4	11.6	11.8	12.2	12.8	18.0	26.7	178	199	191	138	33.4
MAX	20	14	14	14	15	79	43	216	215	222	185	80
MIN	10	11	11	12	11	13	15	38	190	172	54	21
AC-FT	762	690	724	748	712	1,110	1,590	10,930	11,860	11,770	8,470	1,990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2003, BY WATER YEAR (WY)

MEAN	36.0	26.6	21.9	21.7	26.0	39.1	74.2	165	150	166	135	82.5
MAX	241	151	128	156	146	171	398	1,109	551	365	335	242
(WY)	(1923)	(1985)	(1939)	(1939)	(1986)	(1983)	(1942)	(1922)	(1983)	(1915)	(1999)	(1917)
MIN	9.12	8.97	8.25	7.00	7.19	11.7	15.0	28.4	28.0	31.3	18.0	18.4
(WY)	(1962)	(1965)	(1973)	(1960)	(1977)	(1956)	(1935)	(1945)	(1957)	(1936)	(1934)	(1934)

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10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1914 - 2003
ANNUAL TOTAL	24,787	25,888	79.1
ANNUAL MEAN	67.9	70.9	201
HIGHEST ANNUAL MEAN			33.5
LOWEST ANNUAL MEAN			5.5
HIGHEST DAILY MEAN	300	May 30	1,740
LOWEST DAILY MEAN	10	Oct 18	5.5
ANNUAL SEVEN-DAY MINIMUM	10	Oct 15	5.5
ANNUAL RUNOFF (AC-FT)	49,170	51,350	57,290
10 PERCENT EXCEEDS	254	197	209
50 PERCENT EXCEEDS	18	17	34
90 PERCENT EXCEEDS	11	11	13

e Estimated

